

# Panasonic

900MHz Cordless Phone

Model No. **KX-TC1851ALB**  
**KX-TC1851Nzb**  
**Operating Instructions**

*Preparation*

*Basic Operation*

*Advanced Operation*

*Useful Information*



KX-TC1851ALB

Caller ID Compatible

**PLEASE READ BEFORE USE AND SAVE.**

**Charge the battery for about 6 hours before initial use.**

# Before Initial Use

*Thank you for purchasing your new Panasonic cordless telephone.*

**For Australia**

When you subscribe to Caller ID services from your telephone operator, this telephone will display the caller's phone number. When available from your telephone operator, this telephone will also display the number of the second call or call waiting.

**For New Zealand**

Caller ID, where available, is telephone company service. After subscribing to Caller ID, this phone will display a caller's phone number.

## For your future reference

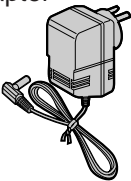

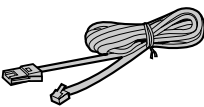
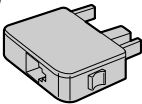
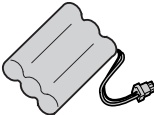

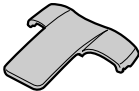
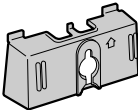

Serial No. \_\_\_\_\_  
(found on the bottom of the unit)

Date of purchase \_\_\_\_\_

Name and address of dealer \_\_\_\_\_

Attach or keep original receipt to assist with any repair under warranty.

## Accessories (included)

<div><input type="checkbox"/> AC Adaptor (p. 10)</div> <div></div> <div>one</div>	<div><input type="checkbox"/> Telephone Line Cord (p. 10)</div> <div><div><div>For Australia</div><div></div><div>one</div></div><div><div>For New Zealand</div><div></div><div>one</div></div></div>	
<div><b>For Australia only</b></div> <div><input type="checkbox"/> Telephone Plug (p. 10)</div> <div></div> <div>one</div>	<div><input type="checkbox"/> Battery (p. 11)</div> <div></div> <div>one</div>	<div><input type="checkbox"/> Handset Cover (p. 11)</div> <div></div> <div>one</div>
<div><input type="checkbox"/> Belt Clip (p. 48)</div> <div></div> <div>one</div>	<div><input type="checkbox"/> Wall Mounting Adaptor (p. 46)</div> <div></div> <div>one</div>	<div><input type="checkbox"/> Handset Holder (p. 46)</div> <div></div> <div>one</div>

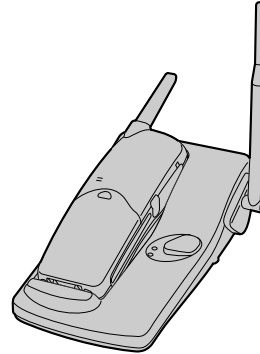
# For Best Performance

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## Battery Charge

A rechargeable Ni-Cd battery powers the handset. Charge the battery for about **6 hours** before initial use (p. 11).

**Clean the handset and the base unit charge contacts with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.

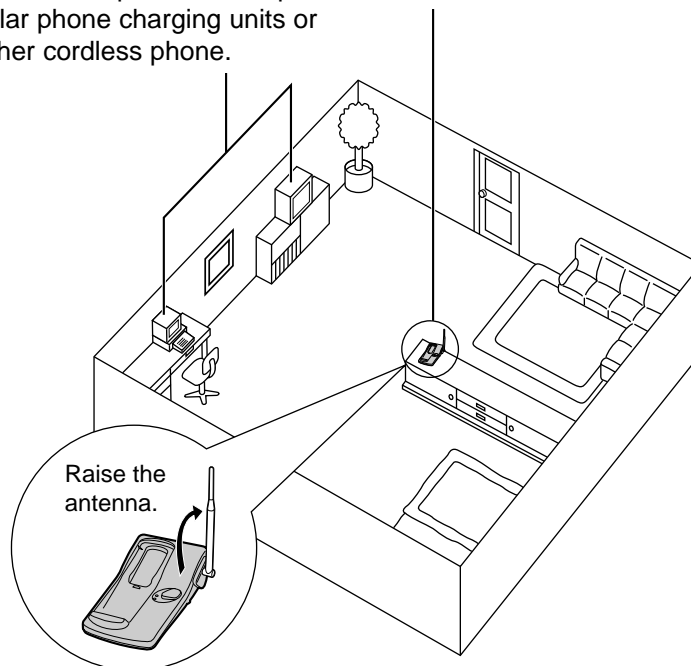


## Base Unit Location/Noise

Calls are transmitted between the base unit and the handset using wireless radio waves. **For maximum distance and noise-free operation**, the recommended base unit location is:

Away from electrical appliances such as a TV, personal computer, cellular phone charging units or another cordless phone.

In a HIGH and CENTRAL location with no obstructions such as walls.



- If more than one cordless phone is being used and your handset is near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

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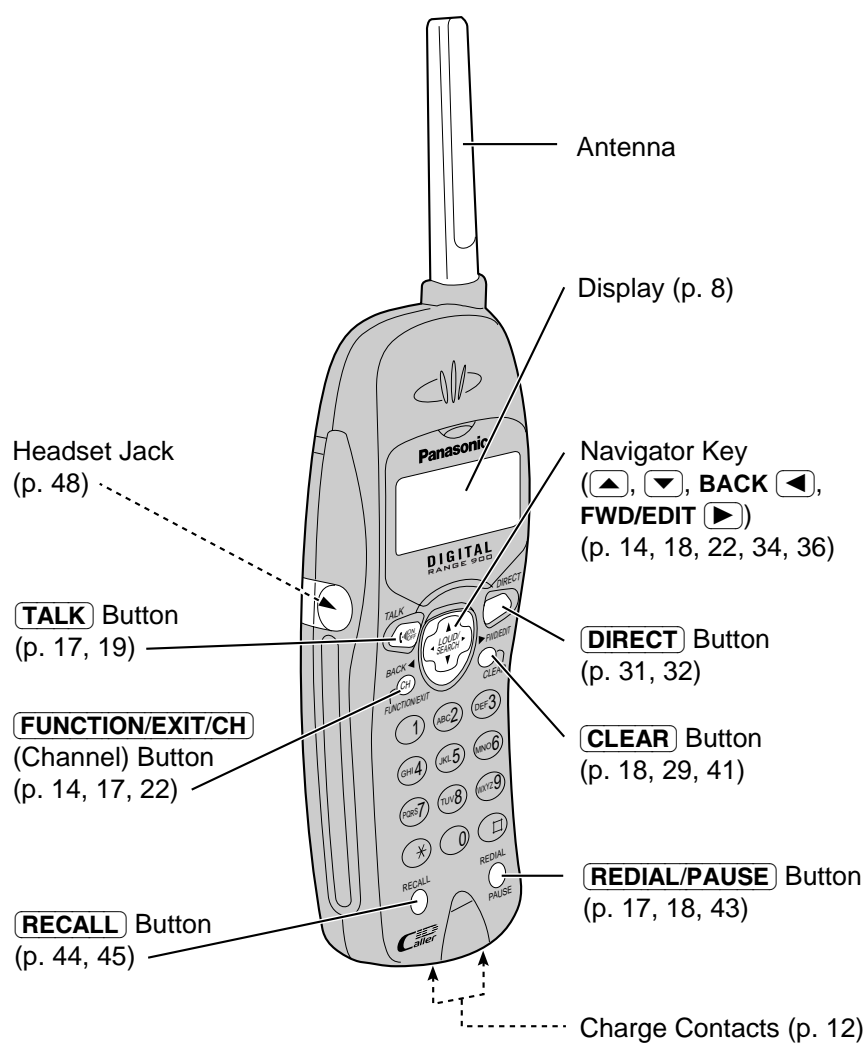
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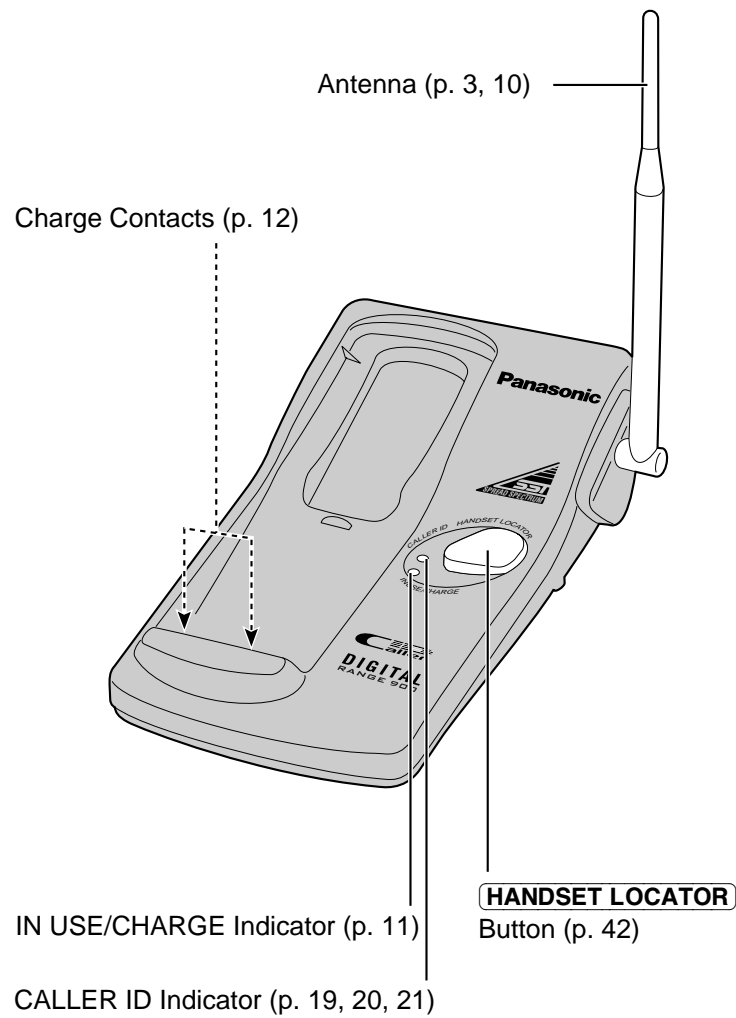
# Location of Controls

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## Handset



Base unit



# Display

The handset shows you instructions and information on the display. These display prompts are shown below.

	<p>The Caller List is empty or there are no stored items in the directory.</p>
	<p>The battery needs to be charged. Place the handset on the base unit to charge the battery (p. 11).</p>
	<p>The display shows the number of new calls and the battery strength (p. 11) while the handset is on the base unit.</p>
	<p>The display shows the number of new calls when  or  is pressed while the handset is off the base unit. To search from the most recent call, press . To search from the oldest call, press  (p. 22). To go to the directory list, press <b>FWD/EDIT</b>  (Directory key).</p>
	<p>When the ringer volume is set to OFF (p. 16), "Ringer off" will flash for about 45 seconds before the handset returns to the standby mode (p. 12).</p>
	<p>When a call is received, the display shows the caller's phone number after the first ring.</p>
	<p>During a conversation, the display shows the length of the call (ex. 1 hour, 6 minutes and 35 seconds). The battery strength is also displayed (p. 11).</p>



No link to base.  
Place on cradle  
and try again.

The handset has lost communication with the base unit. Place the handset on the base unit and try again.

0222333444  
11:20A JAN.12 ×3

This is a phone number from the Caller List. The display shows:  
—the caller's phone number,  
—the time and date of the last call (ex. Jan. 12, 11:20 AM), and  
—the number of times called (ex. 3 times).

Ann  
0312345678

This is a name from the directory. The stored name and phone number are displayed.

Paging

The base unit is paging the handset (p. 42).

Please lift up  
and try again

▼, ▲, **BACK** ◀ or **FWD/EDIT** ▶ was pressed while the handset was on the base unit. Lift the handset and press the button again.

Not available

▼, ▲, **BACK** ◀ or **FWD/EDIT** ▶ was pressed while the base unit was not in the standby mode.

Directory full

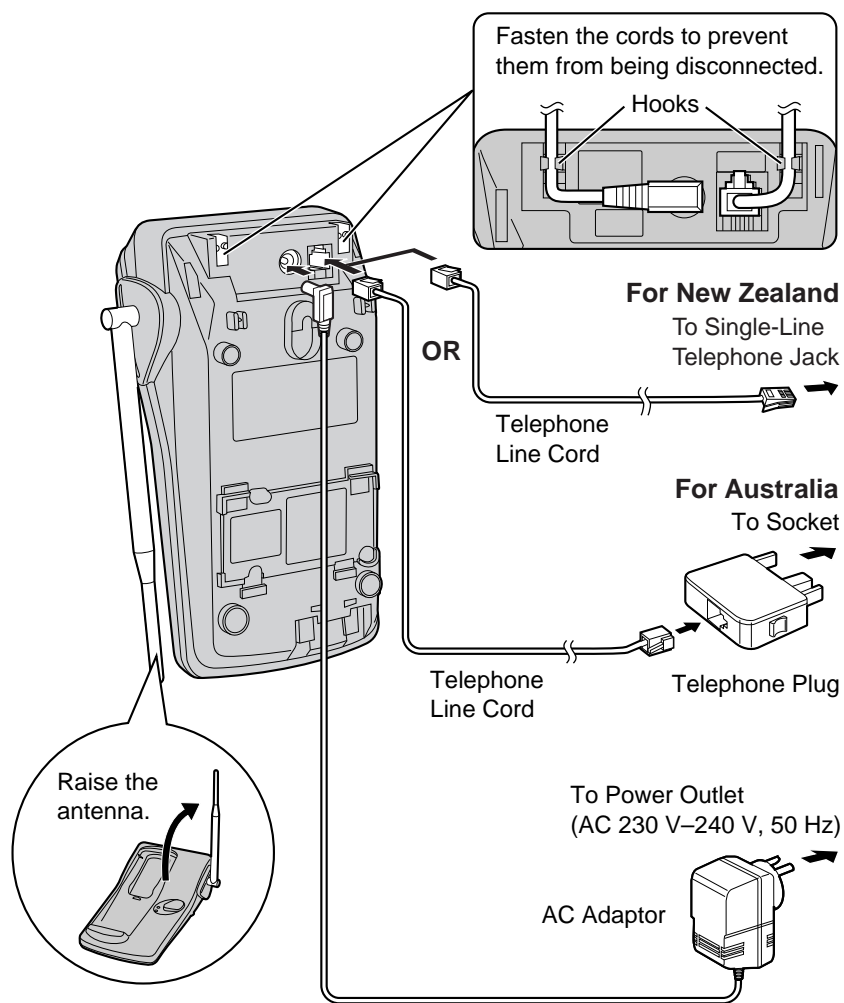
When trying to store an item or Caller List information in the directory, the directory memory is full (p. 28, 35).

0266667777  
----Waiting----

A second call is received during a conversation (p. 43).

# Settings

## Connections

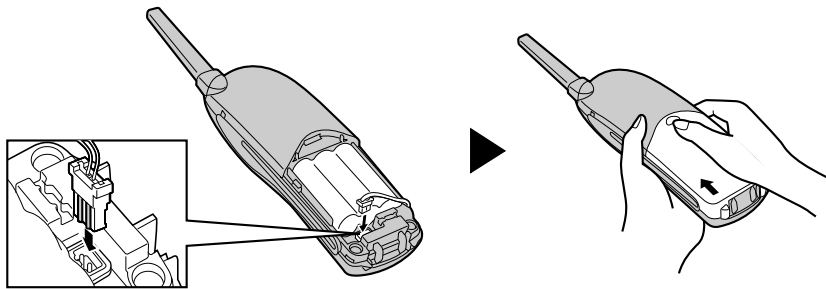


- USE ONLY WITH Panasonic AC ADAPTOR KX-TCA1AL.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- To connect a standard telephone on the same line, see page 50.
- If your unit is connected to a PBX which does not support Caller ID service, you cannot access this service.
- KX-TC1851ALB and KX-TC1851Nzb are not designed to be used with rotary (pulse dialling) services.



## Installing the Battery in the Handset

Install the battery and close the handset cover, locking it into place.

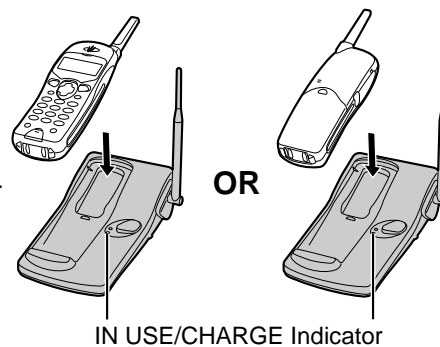


Preparation

## Battery Charge

Place the handset on the base unit and charge for about **6 hours** before initial use.

- The IN USE/CHARGE indicator lights.



## Battery strength

You can check the battery strength on the display while the handset is on the base unit, while it is in use (making/answering a call etc.), or after viewing the Caller List or directory items, programming etc. The battery strength will remain for 5 seconds after using the handset, then the display will return to the standby mode (see next page).

The battery strength is as shown in the chart below.

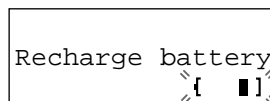
Display prompt	Battery strength
{ ■■■ }	Fully charged
{ ■■ }	Medium
{ ■ }	Low
⚡{ ■ }⚡ (flashing)	Needs to be recharged.

## ► Settings

### Recharge

Recharge the battery when:

- “Recharge battery” is displayed,
- “{ ■}” flashes on the display, or
- the handset beeps intermittently while it is in use.



- If you DO NOT recharge the handset battery for more than 15 minutes, the display will keep indicating “Recharge battery” and/or “{ ■}” will continue to flash.
- To fully recharge the battery, the handset should be left on the base unit for 6 hours.

### Battery information

After your Panasonic battery is fully charged (p. 11):

Operation		Approx. battery life
While in use (TALK)	near the base unit*	Up to about 6 hours
	away from the base unit	Up to about 4 hours
While not in use (Standby)		Up to about 14 days

\*Within about 3 m

- Battery life may be shortened depending on usage conditions, such as viewing the Caller ID Caller List or directory list, and ambient temperature.
- Clean the handset and the base unit charge contacts with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the base unit until “Recharge battery” is displayed and/or “{ ■}” flashes. This will maximize the battery life.
- The battery cannot be overcharged.

### Standby Mode (The handset is off the base unit)

The handset goes into the standby mode after you finish using the handset (making/answering a call, viewing the Caller List or directory list etc.). The display is blank, but the handset can receive calls.

The battery life is conserved in this mode.

## Selecting the Line Mode

If the line is connected to a low voltage system such as a PBX, set to "B". Otherwise the unit may not ring and a second caller's information may not be displayed (p. 43). Your phone comes from the factory set to "A".

**Make sure the handset is in the standby mode.**

- 1 Press **FUNCTION/EXIT/CH**.  

▶Save directory  
 Ringer volume  
 ▼▲ ▶=Yes
- 2 Press ▼ or ▲ repeatedly until the arrow points to "Program".  

▶Program  
 ▼▲ ▶=Yes
- 3 Press **FWD/EDIT** ▶ (Yes key).  

▶Save DIRECT#  
 Set recall time  
 ▼▲ ▶=Yes
- 4 Press ▼ or ▲ repeatedly until the arrow points to "Set line mode".  

▶Set line mode  
 Talk switching  
 ▼▲ ▶=Yes
- 5 Press **FWD/EDIT** ▶ (Yes key).  

Line mode  
 :A  
 ▼▲ ▶=Save
- 6 Press ▼ or ▲ to select "B" or "A".  
 Press **FWD/EDIT** ▶ (Save key).  
 •A beep sounds.  
 •To return to the standby mode, press **FUNCTION/EXIT/CH**.  

Line mode  
 :B

•You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.

# Programmable Functions

You can program the following function items **using the handset near the base unit**. The display shows the programming instructions. See the corresponding pages for function details.

**Make sure the handset is in the standby mode.**

Press **FUNCTION/EXIT/CH**.

<Function menu>\*




►Save directory.....	To store an item in the directory (p. 34).
Ringer volume.....	To select the ringer volume (p. 16).
Program	

Press **FWD/EDIT** .

<Function menu>\*

►Save DIRECT#.....	To store a phone number in the DIRECT button (p. 31).
Set recall time.....	To select the recall time (p. 44, 45).
Set line mode.....	To select the line mode (p. 13).
Talk switching.....	To set the auto talk feature (p. 15).

## During programming

\*To select a desired function item, press  or  repeatedly until the arrow points to the item. Then press **FWD/EDIT**  to go to the next step.

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If you do not press any buttons for 60 seconds, the unit will return to the standby mode.



## Setting the Auto Talk Feature

The Auto Talk feature allows you to answer a call by lifting the handset off the base unit without pressing **TALK**. If you want to use this feature, turn the feature ON by programming. Your phone comes from the factory set to OFF.

**Make sure the handset is in the standby mode.**

1 Press **FUNCTION/EXIT/CH**.

2 Press or repeatedly until the arrow points to "Program".

```
▶Program
▼▲          ▶=Yes
```

3 Press **FWD/EDIT** (Yes key).

4 Press or repeatedly until the arrow points to "Talk switching".

```
Set line mode
▶Talk switching
▼▲          ▶=Yes
```

5 Press **FWD/EDIT** (Yes key).

```
Auto talk
: Off
▼▲          ▶=Save
```

6 Press or to select "On" or "Off".  
Press **FWD/EDIT** (Save key).

```
Auto talk
: On
```

- A beep sounds.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- To answer a call when the Auto Talk feature is OFF, lift the handset off the base unit and press **TALK**.

## ► Programmable Functions

### Selecting the Ringer Volume

You can program the ringer volume to HIGH, LOW or OFF. If set to OFF, the unit will not ring. Your phone comes from the factory set to HIGH.

**Make sure the handset is in the standby mode.**

1 Press **FUNCTION/EXIT/CH**.

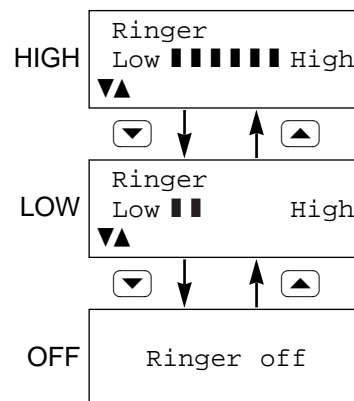
2 Press **▼** or **▲** repeatedly to select "Ringer volume".

Save directory  
►Ringer volume  
▼▲ ►=Yes

3 Press **FWD/EDIT** **►** (Yes key).

4 Press **▼** or **▲** to select the desired volume.

- The selected volume is displayed and rings.
- To turn the ringer OFF, press and hold **▼** until 2 beeps sound.
- The handset will return to the standby mode.



**To turn the ringer ON**, press **▲** or **▼** in step 4.

- The ringer will sound at the LOW level.

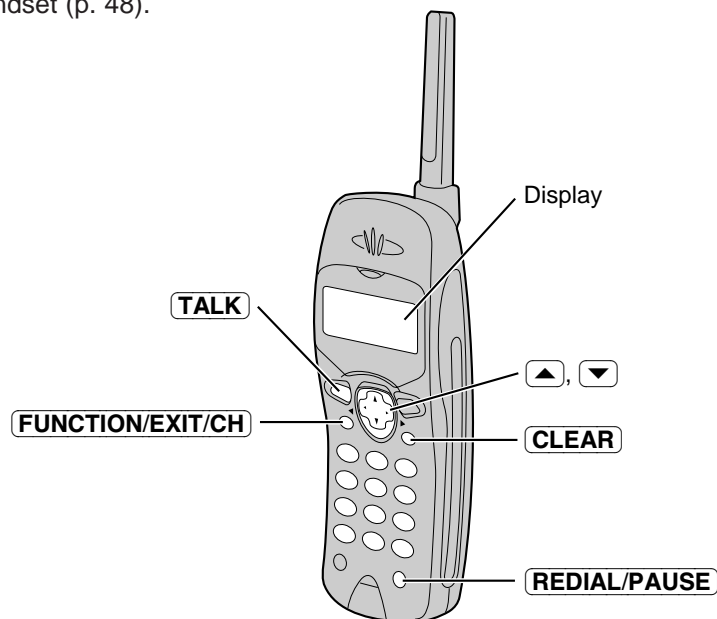
- When you replace the battery, the selected ringer volume setting will return to the factory set (HIGH). Reprogram if necessary.



# Making Calls



To have a hand-free conversation, connect the optional headset to the handset (p. 48).



Basic Operation

1 Press **TALK**.

Talk

2 Dial a phone number.  
• The dialed number is displayed.  
• After a few seconds, the display will show the length of the call and the battery strength.

Talk  
0111112222

Talk  
00-00-00 {■■■■}

3 To hang up, press **TALK** or place the handset on the base unit.

## If noise interferes with the conversation

Press **FUNCTION/EXIT/CH** to select a clearer channel or move closer to the base unit.

## To redial the last number dialled

Press **TALK** → **REDIAL/PAUSE**.

## ► Making calls

### To dial after confirming the entered number

- 1 Dial a phone number.
  - If you misdial, press **CLEAR**. All digits are erased. Dial the correct phone number.
- 2 Press **TALK**.
  - After a few seconds, the display will show the length of the call and the battery strength.
- 3 To hang up, press **TALK** or place the handset on the base unit.

0233334444

Talk  
0233334444

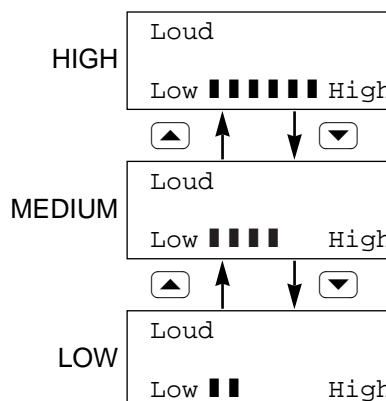
Talk  
00-00-00 {■■■■}

### To redial after confirming the last number dialled

Press **REDIAL/PAUSE** → **TALK**.

### To select the receiver volume

- Press ▲ or ▼ while talking.
- Each time you press ▲ or ▼, the volume level will change.
  - The display will return to the length of the call.
  - Your phone comes from the factory set to MEDIUM.



- When you replace the battery, the selected receiver volume setting will return to the factory set (MEDIUM). Reprogram if necessary.

## Answering Calls

When a call is received, the unit rings and the CALLER ID indicator on the base unit flashes quickly. If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 20). In order to view the Caller ID information, please wait until the second ring to answer a call.

Lift the handset off the base unit and press **TALK**.

- You can also answer a call by pressing any dialling button **0** to **9**, **\*** or **#** (—Any Key Talk).



### Auto Talk

If you set the Auto Talk feature to ON (p. 15), you can answer a call by lifting the handset off the base unit without pressing **TALK**.



Basic Operation

When the optional headset is connected (p. 48), make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

### Backlit LCD display

The backlit handset display will stay on for about 10 seconds after pressing a handset button or lifting the handset off the base unit.

### Backlit handset keypad

The handset dialling buttons will light when you press a button or lift the handset off the base unit, and flash when a call is received. The lights will go out about 10 seconds after pressing a button, lifting the handset or answering a call.

## Caller ID Service

This unit is compatible with a Caller ID service offered by your telephone company. If you subscribe to a Caller ID service, the calling party's information will be displayed after the first ring.

The unit can record information of up to 50 different callers, including the time and date received and the number of times called, in the Caller List. The Caller List information is sorted by the most recent to the oldest call. When the 51st call is received, the first call is deleted.

Using the list, you can automatically call back a caller. You can store the callers' numbers from the Caller List into the directory.

When a second call is received while talking, the new caller's phone number will be displayed (p. 43).

### How caller information is displayed when a call is received

The display shows the caller's phone number after the first ring.\*

- For Australia users, the caller's phone number will be displayed as 10 digits.  
For New Zealand users, the caller's phone number will be displayed as 9 digits.

After you answer the call, the display will show the length of the call and the battery strength.

0244448888



Talk  
00-00-00 [■■■■]



The CALLER ID indicator light will flash quickly when a call is being received.

### \*Private name display

If you receive a call from one of the phone numbers stored in the directory (p. 34), the caller's name will also be displayed.

TINA ROBINSON  
0244448888

- 
- Caller information cannot be displayed in the following cases:
    - If the caller dialed from an area which does not provide a Caller ID service, the display will show "Out of area".
    - If the caller has requested not to display his/her information, the display will show "Private caller".
  - If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.

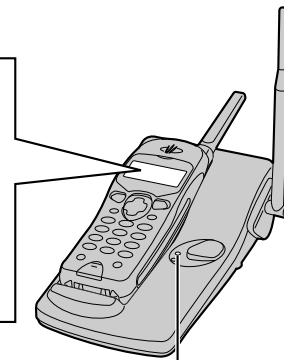
## To check the number of new calls

When new calls have been received, the CALLER ID indicator flashes slowly on the base unit.

### While the handset is on the base unit:

If you have received 10 new calls, the display will show the following:

10 new calls  
{■■■■}

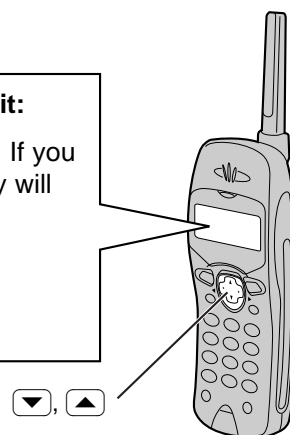


CALLER ID Indicator

### While the handset is off the base unit:

Press ▼ or ▲ to turn the display on. If you have received 10 new calls, the display will show the following:

10 new calls  
▼▲ ▶=Directory



Advanced Operation

# Using the Caller List

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## Viewing the Caller List

To check who has called, follow the steps below.

**Make sure the handset is in the standby mode.**

- 1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

- The display will show, for example, the following:

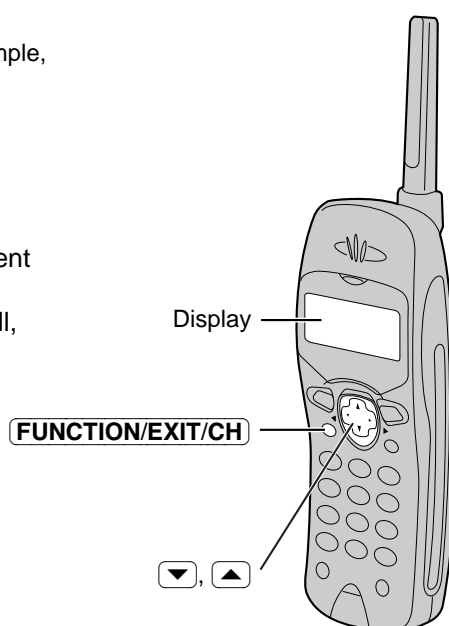
2 new calls  
▼▲ ▶=Directory

- 2 To search from the most recent call, press ▼.  
To search from the oldest call, press ▲.

- To scroll between callers, press ▼ or ▲.

- 3 To exit the list, press **FUNCTION/EXIT/CH**.

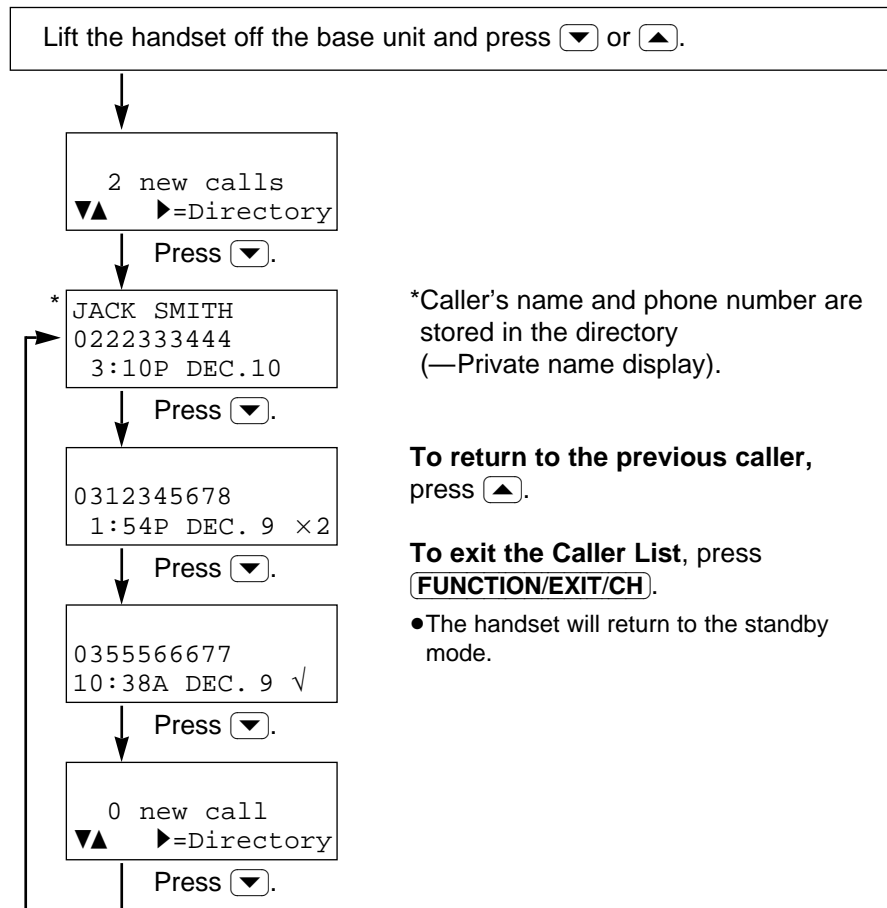
- The handset will return to the standby mode.



- Once new calls have been checked, "√" will be added.
- If "No items stored" is displayed in step 1, the Caller List is empty. After 5 seconds, the handset will return to the standby mode.
- If more than one call is received from the same caller, the date and time of the most recent call will be recorded. If the same caller calls again, the call entry with "√" will be deleted.
- In step 1, you can go to the directory list by pressing **FWD/EDIT** ▶ (p. 38).



### Ex. When you search from the most recent call:

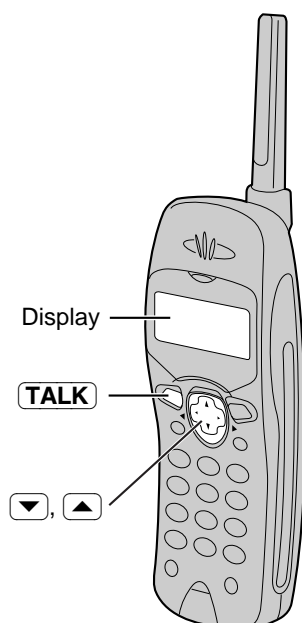


#### Display meaning:

- √ : You have checked this caller information, answered the call or called back the caller.
- ×2—×9 : The number of times the same caller called (up to 9). After checking, “×2”—“×9” will be replaced with “√”.

## ► Using the Caller List

### Calling Back from the Caller List



- 1** Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

3 new calls  
▼▲ ▶=Directory

- 2** Press ▼ or ▲ repeatedly to find the desired caller.

0355566677  
11:20A JAN.12 ×3

- 3** Press **TALK**.  
•The displayed phone number is dialed automatically.

Talk  
0355566677

Talk  
00-00-00 {■■■■}





- 
- If a phone number is not displayed in the caller information, you cannot call back that caller.

**For New Zealand Users:**

Your telephone service provider may charge you for a local call when it is dialled with an area code prefix. If the charge for local call is unacceptable, only the 7-digits of the local number should be dialled from your telephone. Do not dial the “0” prefix or the area code digit.

## ► Using the Caller List

### Editing the Caller's Phone Number

The unit can edit a phone number into one of 3 patterns.

**Make sure the handset is in the standby mode.**

- 1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

```
5 new calls
▼▲ ▶=Directory
```

- 2 Press ▼ or ▲ repeatedly to find the desired caller. Press **FWD/EDIT** ▶.

```
0276543210
11:20A JAN.12 ✓
```

- 3 While the arrow points to "Edit", press **FWD/EDIT** ▶ (Yes key).

```
▶Edit
Save directory
▼▲ ▶=Yes
```

- 4 Press **FWD/EDIT** ▶ (Edit key) to select a pattern.

- Each time you press **FWD/EDIT** ▶, the number is rearranged into one of 3 different patterns.

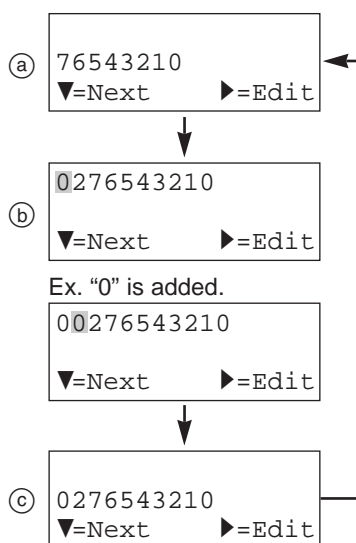
(a) Phone no.

(b) Free editing

- You can add digits to the front of the number, up to a total of 20 digits including the original number.
- Each time you press **CLEAR**, —after you add a number, the digit to the left of the cursor is erased. —when the cursor is at the top, the digit on the cursor is erased.

(c) Area code – Phone no.

- The order in which patterns (a)–(c) are displayed depends on how the telephone number is displayed in step 2.
- You should complete editing a number within 60 seconds.





- 5** After editing the number, you can continue with calling back or storing procedures.  
To call back, press **TALK** (p. 24).  
To store the number in the directory, press **▼** (Next key). Follow the instructions on the display (p. 28).

76543210
▲=Edit      ▶=Save

- The number edited in step 4 will not be maintained in the Caller List.

**For New Zealand Users:**

Your telephone service provider may charge you for a local call when it is dialled with an area code prefix. If the charge for local call is unacceptable, only the 7-digits of the local number should be dialled from your telephone. Do not dial the "0" prefix or the area code digit.

## ► Using the Caller List

### Storing Caller List Information in the Directory

You can store numbers that are in the Caller List in the directory.

**Make sure the handset is in the standby mode.**

- 1 Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

10 new calls  
▼▲ ►=Directory

- 2 Press ▼ or ▲ repeatedly to find the caller you want to store in the directory. Press **FWD/EDIT** ► (Yes key).

0355566677  
11:20A JAN.12 ×3

- If the number requires editing, see page 26.

►Edit  
Save directory  
▼▲ ►=Yes

- 3 Press ▼ or ▲ to select "Save directory". Press **FWD/EDIT** ► (Yes key).

Edit  
►Save directory  
▼▲ ►=Yes

- a) If a name is not required, press ▼ (Next key) and **FWD/EDIT** ► (Save key).
- b) If a name is required, enter the name (p. 34). When finished, press ▼ (Next key) and **FWD/EDIT** ► (Save key).

Enter name  
■  
◀▶ ▼=Next

Enter name  
CINDY TURNER ■  
◀▶ ▼=Next

- A beep sounds.
- The display will return to step 2. You can continue storing other items.

CINDY TURNER  
0355566677  
►=Save

To return to the standby mode, press **FUNCTION/EXIT/CH**.

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If the display shows "Directory full" in step 3, the display will return to step 2. Press **FUNCTION/EXIT/CH** to exit the list. To erase other stored items from the directory, see page 41.
- You cannot store caller information in the directory if a phone number is not displayed.

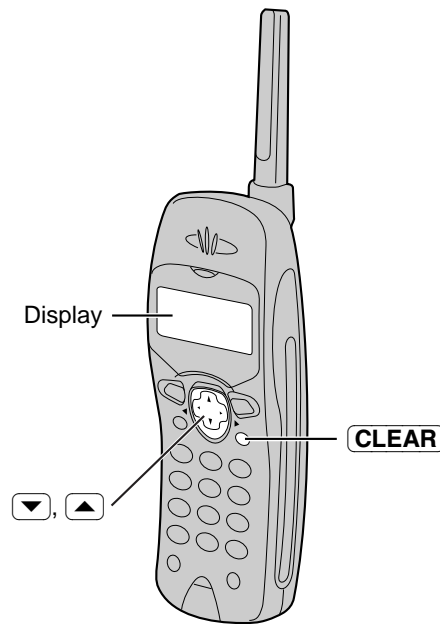
#### For New Zealand Users:

Your telephone service provider may charge you for a local call when it is dialled with an area code prefix. If the charge for local call is unacceptable, only the 7-digits of the local number should be dialled from your telephone. Do not dial the "0" prefix or the area code digit.



## Erasing Caller List Information

After checking the Caller List, you can erase some or all of the entries.  
**Make sure the handset is in the standby mode.**



### To erase a specific caller from the Caller List

- 1** Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

10 new calls  
▼▲ ▶=Directory

- 2** Press ▼ or ▲ repeatedly to find the caller you want to erase from the Caller List.

0246813579  
12:20A JAN.12 ✓

- 3** Press **CLEAR**.
- A beep sounds and the information is erased.
  - To erase other items, repeat from step 2.
  - To return to the standby mode, press **FUNCTION/EXIT/CH**.

Clear

## ► Using the Caller List

---

### To erase all entries in the Caller List

Before erasing all entries, make sure that “0 new call” is displayed.

- 1** Lift the handset off the base unit and press ▼ or ▲ to enter the Caller List.

0 new call  
▼▲ ►=Directory

- 2** Press **CLEAR**.

- 3** Press ▼ or ▲ to select “All clear”.

Exit  
►All clear  
▼▲ ►=Yes

- 4** Press **FWD/EDIT** ► (Yes key) or **CLEAR**.
- A beep sounds and all entries are erased.
  - The handset will return to the standby mode.

All clear

# One-Touch Dialler



A phone number stored in the **DIRECT** button can be dialled with a one-touch operation.

## Storing a Phone Number in the DIRECT Button

Make sure the handset is in the standby mode.

1 Press **FUNCTION/EXIT/CH**.

2 Press **▼** or **▲** repeatedly until the arrow points to "Program".

►Program  
▼▲ ►=Yes

3 Press **FWD/EDIT** **►** (Yes key).

4 While the arrow points to "Save DIRECT#", press **FWD/EDIT** **►** (Yes key).

►Save DIRECT#  
Set recall time  
▼▲ ►=Yes

5 Enter a phone number, up to 22 digits.  
• Each time you press **CLEAR** the digit to the left of the cursor is erased. To erase all of the digits, press and hold **CLEAR**.

■  
◄► ▼=Next

1234567890123456  
789012  
◄► ▼=Next

6 Press **▼** (Next key).  
• If you want to edit the entered number, press **▲** (Edit key) and return to step 5.

1234567890123456  
789012  
▲=Edit ►=Save

7 Press **FWD/EDIT** **►** (Save key).  
• A beep sounds.  
• To return to the standby mode, press **FUNCTION/EXIT/CH**.

1234567890123456  
789012  
Save DIRECT#

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If a pause is required for dialling, **REDIAL/PAUSE** can be stored in a phone number counting as one digit (p. 43) in step 5.

## ► One-Touch Dialler

---

### Dialling the Stored Number in the DIRECT Button

**1** Press **TALK**.

**2** Press **DIRECT**.  
•After a few seconds, the display will show the length of the call and the battery strength.

Talk
1234567890123456
789012

Talk
00-00-00     {■■■■}

### To dial after confirming the entered number

Press **DIRECT** → **TALK**.



## Using the Directory

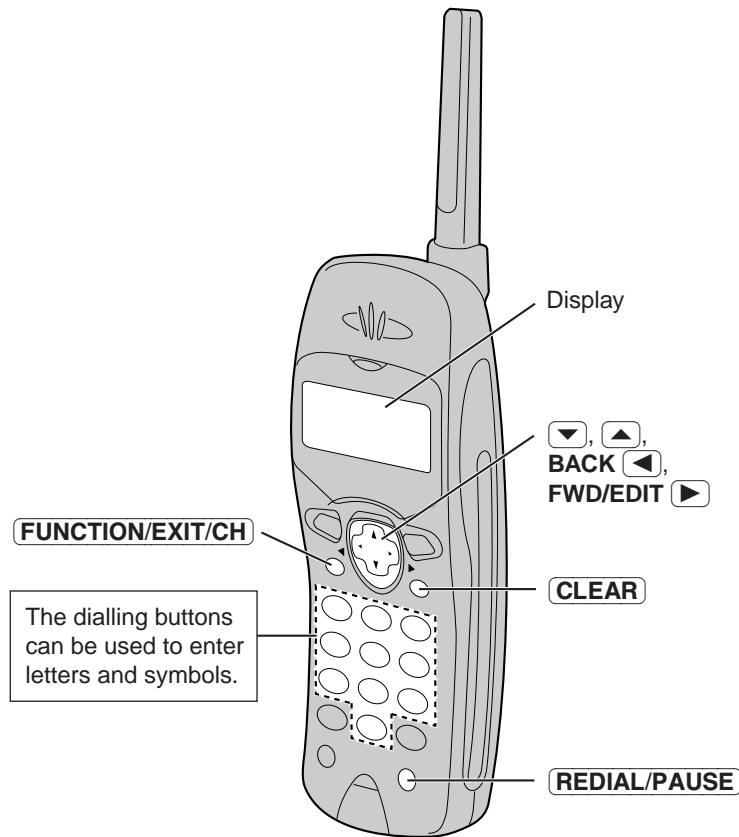


You can store up to 50 names and phone numbers in the directory. All directory items are sorted by the first word in alphabetical order. Using the directory, you can make a call by selecting a name on the handset display.


When you receive a Caller ID call from a caller stored in the directory, the display will show the caller's name with the phone number (—Private name display).

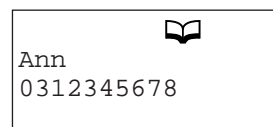
### Storing Names and Numbers in the Directory

Make sure the handset is in the standby mode.



Advanced Operation

- When storing or finding items in the directory, “” will be shown on the display.



(Continued )

## ► Using the Directory

- 1 Press **FUNCTION/EXIT/CH**.  

►Save directory  
Ringer volume  
▼▲ ►=Yes
- 2 While the arrow points to “Save directory”, press **FWD/EDIT** (►) (Yes key).  

Directory=  
20 items

  - The display shows the number of stored items in the directory.
- 3 Enter a name, up to 15 characters, with the dialling buttons, **BACK** (◀) or **FWD/EDIT** (►).  

Enter name  
■  
◀▶ ▼=Next

  - See the steps for entering names and symbols (p. 36).
  - If a name is not required, press ▼ (Next key) and go to step 5.

Enter name  
Tom Jones■  
◀▶ ▼=Next
- 4 Press ▼ (Next key).  

Enter phone no.
- 5 Enter a phone number, up to 22 digits.  
  - Each time you press **CLEAR**, a character is erased from the right. To erase all of the digits, press and hold **CLEAR**.

0398765432■  
◀▶ ▼=Next
- 6 Press ▼ (Next key).  

Tom Jones  
0398765432  
►=Save
- 7 Press **FWD/EDIT** (►) (Save key).  
  - A beep sounds.
  - To continue storing other items, repeat from step 2.
  - To return to the standby mode, press **FUNCTION/EXIT/CH**.



- If a pause is required for dialling, **REDIAL/PAUSE** can be stored in a phone number counting as one digit (p. 43) in step 5.
- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If the display shows "Directory full" in step 2, the display will return to step 1. Press **FUNCTION/EXIT/CH** to exit the list. To erase other stored items from the directory, see page 41.

**For New Zealand Users:**

Your telephone service provider may charge you for a local call when it is dialled with an area code prefix. If the charge for local call is unacceptable, only the 7-digits of the local number should be dialled from your telephone. Do not dial the "0" prefix or the area code digit.

## ► Using the Directory

### Steps for Entering Names and Symbols

The handset dialling buttons (0 to 9), **BACK** ◀ and **FWD/EDIT** ▶ can be used to enter letters and symbols.

Each button selects a character as shown below.



Keys	Number of times key is pressed										
	1	2	3	4	5	6	7	8	9	10	11
1	#	&	'	(	)	*	,	–	.	/	1
2	A	B	C	a	b	c	2				
3	D	E	F	d	e	f	3				
4	G	H	I	g	h	i	4				
5	J	K	L	j	k	l	5				
6	M	N	O	m	n	o	6				
7	P	Q	R	S	p	q	r	s	7		
8	T	U	V	t	u	v	8				
9	W	X	Y	Z	w	x	y	z	9		
0	0	Blank									
<b>BACK</b> ◀	To move the cursor to the left										
<b>FWD/EDIT</b> ▶	To move the cursor to the right										

- To enter another character using the same dialling button, press **FWD/EDIT** ▶ to move the cursor to the next space.

### If you make a mistake while entering a name

Use **BACK** ◀ or **FWD/EDIT** ▶ to move the cursor to the incorrect character, press **CLEAR** to delete and enter the correct character. Each time you press **CLEAR**, a character is erased from the right.

To erase all characters, press and hold **CLEAR**.



**For example, to enter “Tom Jones”:**

- 1 Press **FUNCTION/EXIT/CH**.
- 2 While the arrow points to “Save directory”, press **FWD/EDIT** (▶) (Yes key).

Directory=  
20 items

Enter name  
◀▶ ▼=Next
- 3 Press **8**.

T
- 4 Press **6** six times, then press **FWD/EDIT** (▶) to move the cursor to the right.

To
- 5 Press **6** four times.

Tom
- 6 Press **FWD/EDIT** (▶) twice to enter a blank.

Tom
- 7 Press **5**.

Tom J
- 8 Press **6** six times, then press **FWD/EDIT** (▶) to move the cursor to the right.

Tom Jo
- 9 Press **6** five times.

Tom Jon
- 10 Press **3** five times.

Tom Jone
- 11 Press **7** eight times.

Enter name  
Tom Jones  
◀▶ ▼=Next
- 12 When finished, press ▼ (Next key).
  - Follow steps 5 to 7 on page 34 to complete the operation.

Enter phone no.

Advanced Operation

•While entering names, the cursor will flash on the display.

## ► Using the Directory

### Finding Items in the Directory

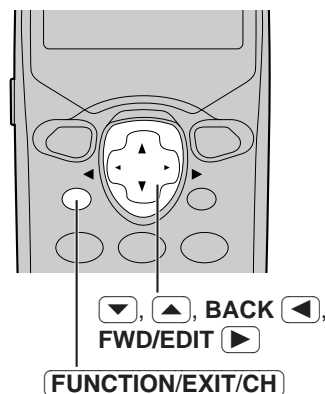
Make sure the handset is in the standby mode.

- 1 Press **BACK** ◀ or **FWD/EDIT** ▶ to enter the directory list.

Directory list  
▼▲  
▶=Caller's list

- 2 Press ▼ or ▲.  
•The first item is displayed.

Ann  
0312345678

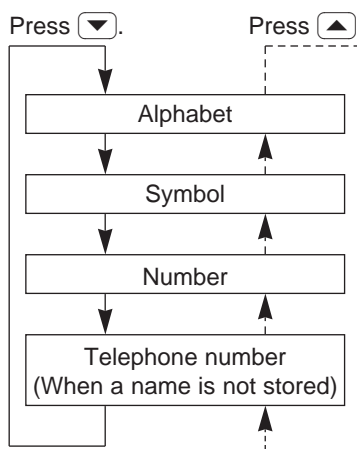


- 3 Press ▼ or ▲ repeatedly until the desired item is displayed.

- All directory items are stored in the order shown on the right.

**To search for a name by the initial:**

- ① Press the dialling button for the first letter of the desired name until any name with the same initial is displayed (see the Index table on page 39).  
Ex. To find "Frank", press **3** repeatedly until the first item under "F" is displayed.
- ② Press ▼ until the name is displayed.



- You can exit the directory list any time by pressing **FUNCTION/EXIT/CH**.
- If "No items stored" is displayed in step 2, the directory is empty. To return to the standby mode, press **FUNCTION/EXIT/CH**.
- In step 1, you can go to the Caller List by pressing **FWD/EDIT** ▶ (p. 22).



## Index Table

Keys	Index	Keys	Index
<b>1</b>	Other symbols, 1	<b>6</b>	M, N, O, 6
<b>2</b>	A, B, C, 2	<b>7</b>	P, Q, R, S, 7
<b>3</b>	D, E, F, 3	<b>8</b>	T, U, V, 8
<b>4</b>	G, H, I, 4	<b>9</b>	W, X, Y, Z, 9
<b>5</b>	J, K, L, 5	<b>0</b>	0

## Dialling from the Directory

**1** Press **BACK** or **FWD/EDIT** to enter the directory list.

**2** Press or .

- The first item is displayed.

**3** Press or repeatedly to find the directory item that you want to dial (p. 38).

Frank  
0234567890

**4** Press **TALK**.

- The number is dialled automatically.

Talk  
0234567890

**5** To hang up, press **TALK** or place the handset on the base unit.

- You can exit the directory list any time by pressing **FUNCTION/EXIT/CH**.

Advanced Operation

## ► Using the Directory

### Editing an Item in the Directory

Make sure the handset is in the standby mode.

1 Press **BACK** (◀) or **FWD/EDIT** (▶) to enter the directory list.

2 Press (▼) or (▲).  
•The first item is displayed.

3 Press (▼) or (▲) repeatedly to find the directory item you want to change (p. 38). Press **FWD/EDIT** (▶).

Jane  
0233444555

Enter name  
Jane  
◀▶ ▼=Next

4 Edit the name using the dialling buttons, **BACK** (◀) or **FWD/EDIT** (▶) (p. 36), up to 15 characters.

Enter name  
Jane Walker  
◀▶ ▼=Next

5 Press (▼) (Next key).  
•If you do not need to change the number, press (▼) (Next key) twice and go to step 8.

0233444555  
◀▶ ▼=Next

6 Edit the phone number.  
•Move the cursor where you want to edit by pressing **FWD/EDIT** (▶) or **BACK** (◀).  
•Each time you press **CLEAR**, a character is erased from the right. To erase all of the digits, press and hold **CLEAR**.

0233444555  
◀▶ ▼=Next

0333444555  
◀▶ ▼=Next

7 Press (▼) (Next key).

Jane Walker  
0333444555  
▶=Save

8 When finished, press **FWD/EDIT** (▶) (Save key).  
•To continue editing other items, repeat steps 3 through 8.  
•To return to the standby mode, press **FUNCTION/EXIT/CH**.

Jane Walker  
0333444555



•You can exit the directory list any time by pressing **FUNCTION/EXIT/CH**.





---

## Erasing an Item from the Directory

Make sure the handset is in the standby mode.

1 Press **BACK**  or **FWD/EDIT**  to enter the directory list.



2 Press  or .


- The first item is displayed.

3 Press  or  repeatedly to find the directory item you want to erase (p. 38).

Helen  
0357924680

4 Press **CLEAR**.

Clear?  
=No =Yes

5 Press **FWD/EDIT**  (Yes key) or **CLEAR**.

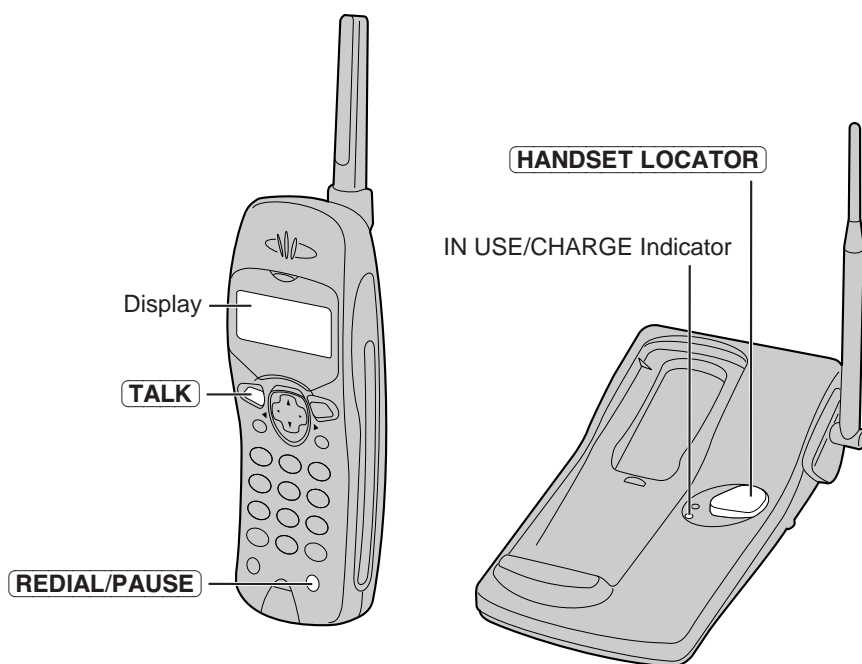
- The display will show the next item.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

Clear

- You can exit the directory list any time by pressing **FUNCTION/EXIT/CH**.

## Special Features

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### Automatic Security Code Setting

Each time you place the handset on the base unit, the unit automatically selects one of more than a million security codes. These codes help prevent the unauthorized use of your telephone line by another cordless telephone user.

### Handset Locator

You can locate the handset or page the handset user with beep tones from the base unit.

- 1 Press **HANDSET LOCATOR**.
  - The IN USE/CHARGE indicator flashes. The handset beeps for 1 minute and "Paging" is displayed on the handset.
- 2 To stop paging, press **HANDSET LOCATOR** again or press **TALK** twice on the handset.



## How to Use the PAUSE Button (For Analog PBX Line/Long Distance Service Users)

We recommend you press **REDIAL/PAUSE** if a pause is required for dialling with a PBX or to access a long distance service.

Ex. Line access number **9** (PBX)

**9** → **REDIAL/PAUSE** → Phone number

- Pressing **REDIAL/PAUSE** once creates a 3.5 second pause. This prevents misdialling when you redial or dial a stored number.
- Pressing **REDIAL/PAUSE** more than once increases the length of the pause between numbers.

## Call Waiting and Caller ID Compatible

If you subscribe to Caller ID services, your handset displays a second caller's information while talking. After you hear a call-waiting tone, the caller's phone number and "----Waiting----" will be displayed.

0266667777  
----Waiting----

You can answer the second call, keeping the first call on hold. Follow Telstra's instructions using **RECALL**.

- If the phone number is stored in the directory, the caller's name will be displayed (p. 20).
- Please contact Telstra for details and availability in your area.

### For Call Waiting Service Users in New Zealand

Make sure the recall time is set to 600 msec for use with Telecom's Call Waiting Service. Press **RECALL** if you hear a call-waiting tone while talking.

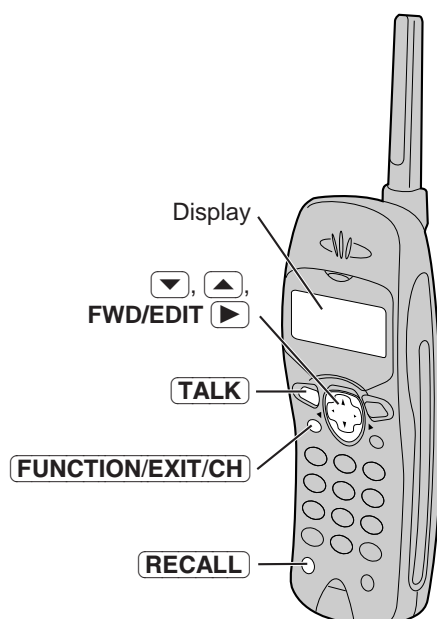
- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **RECALL** again.
- Your telephone company may not support the second caller display feature.

## ► Special Features

---

### RECALL Button

Pressing **RECALL** allows you to use special features of your host PBX such as transferring an extension call or accessing special telephone services (optional) such as call waiting.

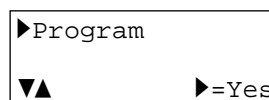




### Selecting the recall time

The recall time depends on your telephone exchange or host PBX. You can select the following recall times: "700, 600, 400, 300, 250, 110, 100 or 90 msec (milliseconds)". KX-TC1851ALB comes from the factory set to "100 msec" and KX-TC1851NZB comes set to "600 msec".

**Make sure the handset is in the standby mode.**

- 1 Press **FUNCTION/EXIT/CH**.
- 2 Press ▼ or ▲ repeatedly until the arrow points to "Program".
- 3 Press **FWD/EDIT** ► (Yes key).






- 4 Press  or  repeatedly until the arrow points to "Set recall time".

```
Save DIRECT#
▶Set recall time
▼▲                ▶=Yes
```

- 5 Press **FWD/EDIT**  (Yes key).

```
Recall time
:100ms
▼▲                ▶=Save
```

- 6 Press  or  repeatedly until the desired time is displayed.

- 7 Press **FWD/EDIT**  (Save key).

- A beep sounds.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- Users in Australia can access Telstra's "EASY CALL" service by having the recall time set at 100 msec (this is the factory default setting), and then follow Telstra's "EASY CALL" instructions to operate this service.
- If you are connected via a PBX, a longer or shorter recall time may be necessary to use PBX functions (transferring a call etc.). Consult your PBX supplier for the correct setting.

#### For Call Waiting Service Users in New Zealand

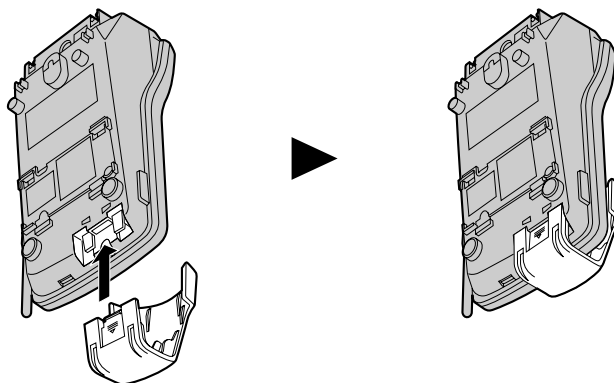
Make sure the recall time is set to 600 msec for use with Telecom's Call Waiting Service. Press **RECALL** if you hear a call-waiting tone while talking.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **RECALL** again.
- Your telephone company may not support the second caller display feature.

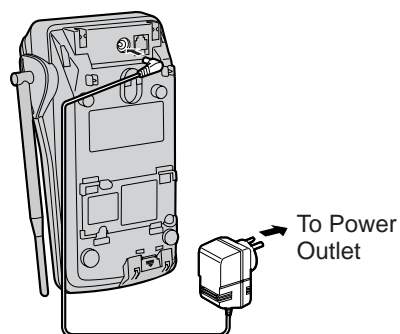
## Wall Mounting

This unit can be mounted on a wall.

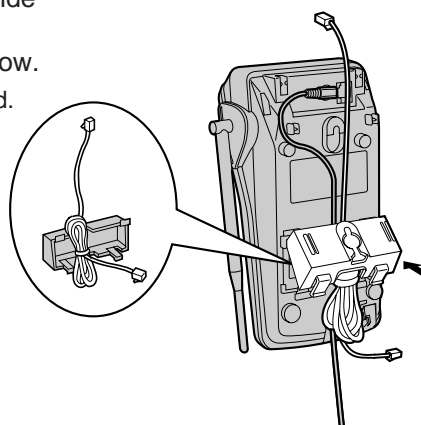
- 1 Set the handset holder as shown.



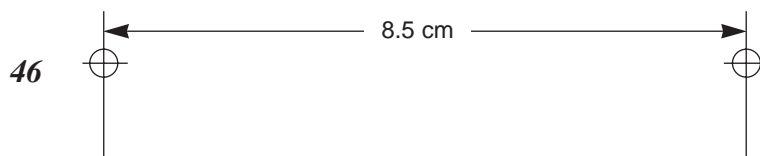
- 2 Connect the AC adaptor.



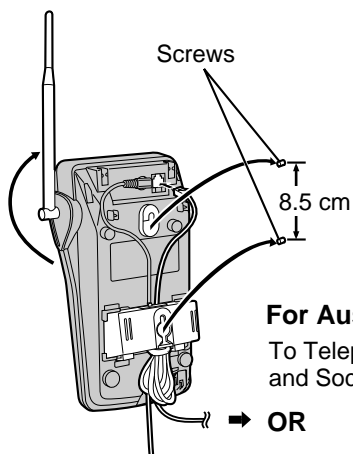
- 3 Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow.
  - The word "UP" should face upward.



**Wall Template**



- 4** Install screws using the wall template (see p. 46).  
Connect the telephone line cord.  
Mount the unit, then slide down.  
● Raise the antenna.



**For Australia**

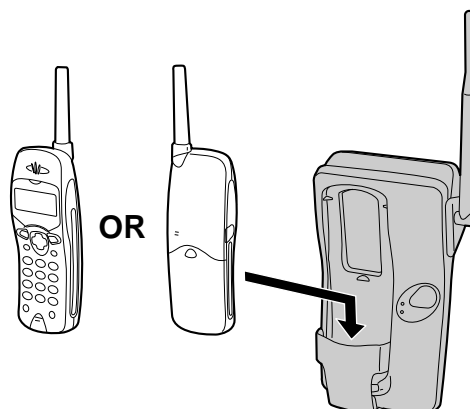
To Telephone Plug and Socket

→ **OR**

**For New Zealand**

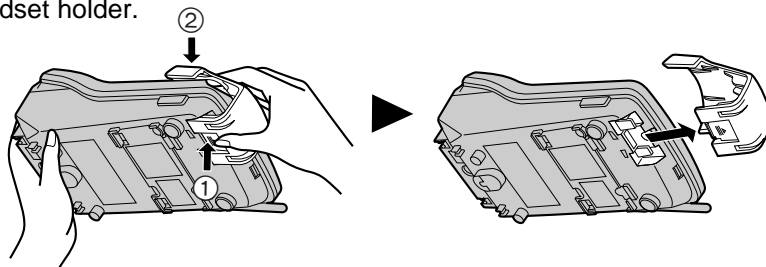
To Single-Line Telephone Jack

- 5 To charge the battery:**  
Place the handset on the handset holder as shown.  
● The IN USE/CHARGE indicator lights.



**To remove the handset holder**

While pressing the arrow (①) and opposite side (②) of the holder, pull out the handset holder.



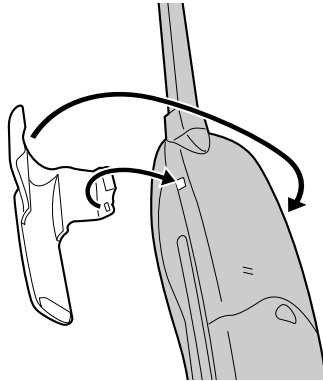
Useful Information

## Using the Belt Clip

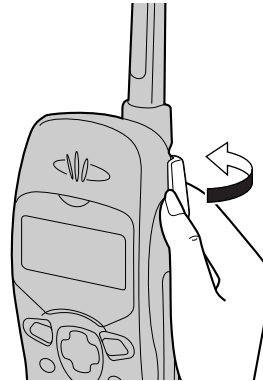
---

You can hang the handset on your belt or pocket using the belt clip.

### To attach the belt clip



### To remove the belt clip



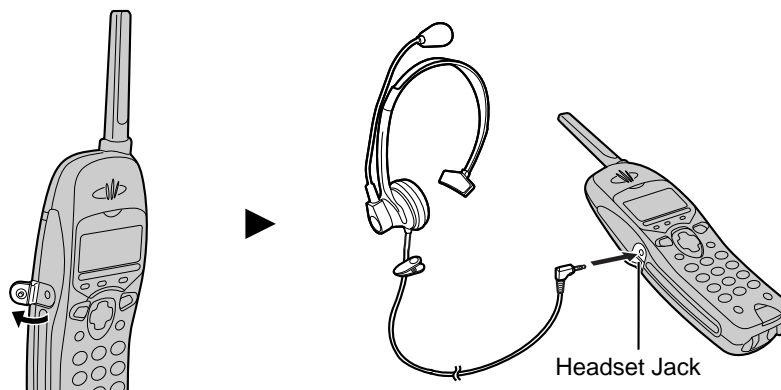
## Using the Optional Headset

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Plugging an optional headset into the handset allows a hands-free phone conversation. Please use only the Panasonic KX-TCA87AL headset.

### Connecting the optional headset to the handset

Open the headset jack cover, and connect the optional headset to the headset jack as shown below.



When the optional headset is connected to the handset, make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

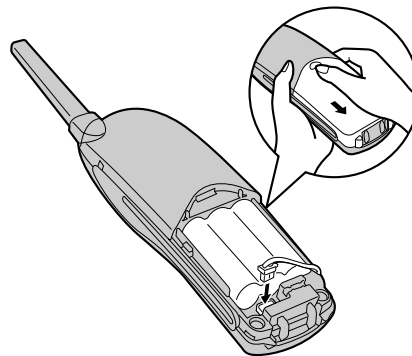


# Battery Replacement

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If “Recharge battery” is displayed and/or “{ ■1” flashes after being fully charged, replace the battery with a new Panasonic P-P508 battery. To prevent memory loss, replace within 3 minutes.

- 1** Press the notch on the battery cover firmly and slide it as indicated by the arrow.
- 2** Replace the battery and close the cover.
- 3** Make sure you charge the new battery for about 6 hours in order to display the battery strength prompt correctly (p. 11).

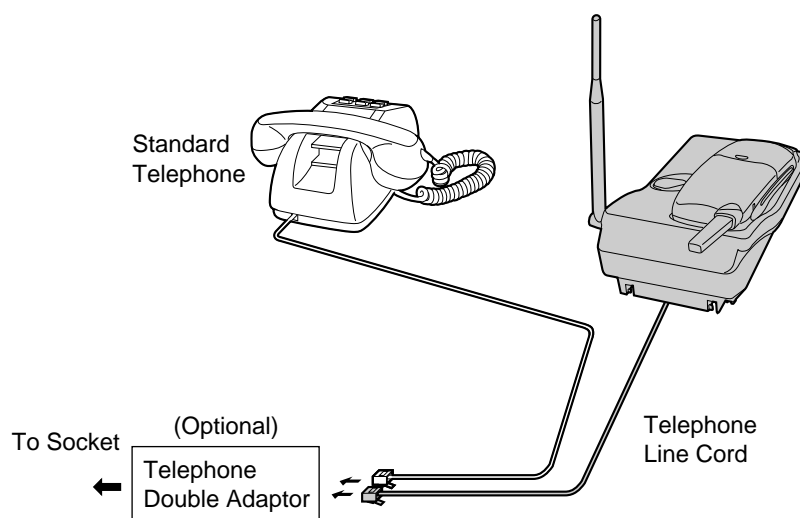


## Adding Another Phone

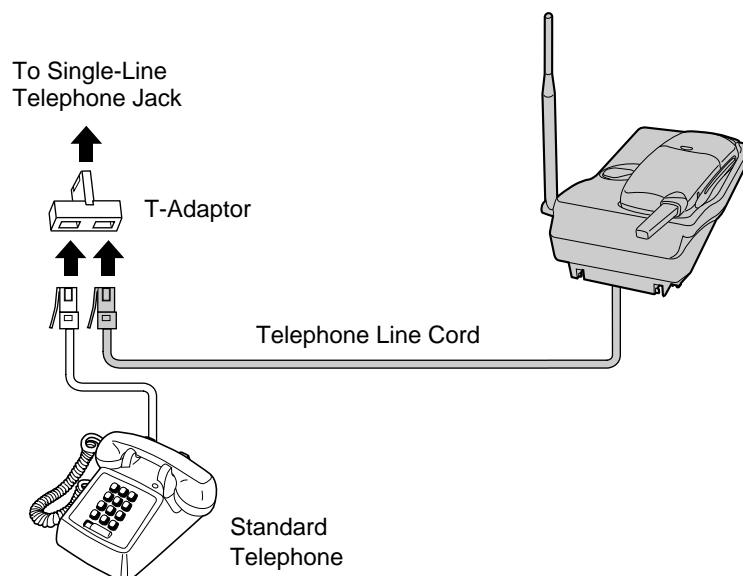
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This unit will not function during a power failure. To connect a standard telephone on the same line, use a telephone double adaptor.

### For Australia



### For New Zealand











## Before Requesting Help



Problem	Cause and Remedy
"No link to base. Place on cradle and try again." is displayed and an alarm tone sounds.	<ul style="list-style-type: none"> <li>• You are too far from the base unit. Move closer and try again.</li> <li>• Place the handset on the base unit and try again.</li> <li>• Plug in the AC adaptor.</li> <li>• Raise the base unit antenna.</li> </ul>
The unit does not work.	<ul style="list-style-type: none"> <li>• Check the settings (p. 10–13).</li> <li>• Charge the battery fully (p. 11).</li> <li>• Clean the charge contacts and charge again (p. 12).</li> <li>• Install the battery properly (p. 11, 49).</li> <li>• Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, and try again.</li> <li>• KX-TC1851ALB and KX-TC1851NZB are not designed to be used with rotary (pulse dialling) services.</li> </ul>
Static, sound cuts in/out, fades. Interference from other electrical units.	<ul style="list-style-type: none"> <li>• Locate the handset and the base unit away from other electrical appliances (p. 3).</li> <li>• Move closer to the base unit.</li> <li>• Raise the base unit antenna.</li> <li>• Press <b>FUNCTION/EXIT/CH</b> to select a clearer channel.</li> </ul>
The handset does not ring.	<ul style="list-style-type: none"> <li>• The ringer volume is set to OFF. Set to HIGH or LOW (p. 16).</li> <li>• If the line is connected to a low voltage system such as a PBX, the unit may not ring. Set the line mode to "B" (p. 13).</li> </ul>
The handset display is blank.	<ul style="list-style-type: none"> <li>• The handset is in the standby mode (p. 12). Press  ,  , <b>BACK</b>  or <b>FWD/EDIT</b>  to turn the display on.</li> </ul>

## ► Before Requesting Help

Problem	Cause and Remedy
The handset display is still blank after pressing  ,  , <b>BACK</b>  or <b>FWD/EDIT</b>  .	<ul style="list-style-type: none"> <li>● Charge the battery fully (p. 11).</li> </ul>
You cannot program items, such as the dialling mode.	<ul style="list-style-type: none"> <li>● Programming is not possible while the unit is in the talk mode or when viewing the Caller List/directory list.</li> <li>● Do not pause for over 60 seconds while programming.</li> <li>● Move closer to the base unit.</li> <li>● , , <b>BACK</b>  or <b>FWD/EDIT</b>  may have been pressed when you picked up the handset. Press <b>FUNCTION/EXIT/CH</b> and try again.</li> </ul>
Previously programmed information is erased.	<ul style="list-style-type: none"> <li>● If a power failure occurs, programmed information may be erased. Reprogram if necessary.</li> </ul>
You cannot store a name and phone number in the directory.	<ul style="list-style-type: none"> <li>● You cannot store an item in the directory while the unit is in the talk mode.</li> <li>● Do not pause for over 60 seconds while storing.</li> </ul>
While programming or searching, the unit starts to ring and stops the program/search.	<ul style="list-style-type: none"> <li>● To answer the call, press <b>TALK</b>. Start again from the beginning after hanging up.</li> </ul>
The unit does not display the caller's phone number.	<ul style="list-style-type: none"> <li>● You do not subscribe to a Caller ID service.</li> <li>● Other telephone equipment may be interfering with your phone. Disconnect it and try again.</li> <li>● Other electrical appliances connected to the same outlet may be interfering with the Caller ID information.</li> <li>● Telephone line noise may be affecting the Caller ID information.</li> <li>● Some PABX units do not support Caller Display.</li> </ul>



Problem	Cause and Remedy
The display goes to the standby mode while viewing the Caller List.	<ul style="list-style-type: none"><li>• Do not pause for over 60 seconds while searching.</li></ul>
When a second call is received during a conversation, the unit does not display the new caller's phone number.	<ul style="list-style-type: none"><li>• The line mode selection is incorrect. See page 13.</li><li>• Your Caller ID service provider does not support this feature.</li></ul>
<b>HANDSET LOCATOR</b> does not function.	<ul style="list-style-type: none"><li>• The handset is too far from the base unit.</li><li>• The handset is engaged in an outside call or is viewing the Caller List/directory list. Wait until the IN USE/CHARGE indicator light goes out.</li></ul>
You cannot redial by pressing <b>REDIAL/PAUSE</b> .	<ul style="list-style-type: none"><li>• If the last number dialled was more than 32 digits long, the number will not be redialled correctly.</li><li>• Access numbers entered after pressing <b>STONE</b> will not be included when redialling.</li></ul>
"Recharge battery" is displayed, "[ ]" flashes or the unit beeps intermittently.	<ul style="list-style-type: none"><li>• Charge the battery fully (p. 11).</li></ul>
You charged the battery fully, but "Recharge battery" is still displayed and/or "[ ]" continues to flash.	<ul style="list-style-type: none"><li>• Clean the charge contacts and charge again (p. 12).</li><li>• Install a new battery (p. 49).</li></ul>

## ► Before Requesting Help

Problem	Cause and Remedy
The IN USE/CHARGE indicator light does not go out while charging.	● This is normal.
You cannot have a conversation using the handset.	● When the optional headset is connected (p. 48), you must use the headset to talk with the caller. To have a normal cordless phone conversation, disconnect the headset.
You cannot have a conversation using the headset.	● Make sure that the optional headset is connected properly (p. 48).

### **For New Zealand Customers**

Panasonic New Zealand operates a toll free Customer Support Centre.

Please phone 0800 Panasonic (0800 726276) for assistance.

# Safety Instructions



Take special care to follow the safety suggestions listed below.

## Safety

- 1) The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
- 2) When left unused for a long period of time, the base unit should be unplugged from the household AC outlet.
- 3) To minimize the possibility of lighting damage when you know that a thunderstorm is coming, we recommend that you:
  - a) Unplug the telephone line cord from the phone jack.
  - b) Unplug the power supply cord from the AC power outlet.

## Installations

### Environment

- 1) Do not use this unit near water—for example, near a bathtub, washbowl, sink, etc. Damp basements should also be avoided.
- 2) The unit should be kept away from heat sources such as radiators, kitchen range, etc. It also should not be placed in rooms where the temperature is less than 5°C or greater than 40°C.
- 3) The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

### Placement

- 1) Do not place heavy objects on top of this unit.
- 2) Care should be taken so that objects do not fall onto and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration, or shock.
- 3) Place the unit on a flat surface.

### For best performance

- 1) If noise prevents the conversation from being understood at the handset, approach the base unit to lessen the noise.
- 2) The handset should be used at the HIGH volume setting when the reception tone is difficult to hear.
- 3) The handset should be fully recharged on the base unit when "Recharge battery" is displayed and/or "[ ■ ]" flashes on the display.
- 4) The handset antenna should not be touched during use because of its high sensitivity.
- 5) The maximum calling distance may be shortened when the unit is used in the following places: Near obstacles such as hills, tunnels, undergrounds, near metal objects such as wire fences, etc.

## ► Safety Instructions

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### **WARNING:**

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

### **Medical**

Consult the manufacture of any personal medical device, such as pacemakers, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 917MHz to 927MHz for Australia and 923MHz to 927MHz for New Zealand, and the power output level can range from 0.001 watts to 0.1 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.

When a failure occurs which results in the internal parts becoming accessible, disconnect AC adaptor immediately and return this unit to the place of purchase or service centre.

If there is any trouble, disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, do not reconnect the unit to the telephone line until the trouble has been repaired. If the known working phone does not operate properly, consult with your telephone company.

This equipment has been tested and found to comply with AS/NZS 3548:1995 limits for electromagnetic interference. Any modifications to any part of the system or to any peripherals may void the EMC compliance of the system or the peripherals.

### **WARNING:**

This equipment will be inoperable if mains power fails.

### **WARNING:**

The earcap on the handset is magnetised and may retain metallic objects.



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**For New Zealand Users Only**

The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.

**WARNING NOTICE:**

No "111" or other calls can be made from this device during a mains power failure.

This equipment shall not be set to make automatic calls to the Telecom "111" Emergency Service.

- We recommend that a standard phone which can be used in the case of a power failure be connected to the telephone line at all times.
- This cordless telephone system does not incorporate provision for secrecy of conversations. Appropriately tuned radio equipment and other cordless telephone systems in close proximity may be used by a third party to monitor and possibly interrupt conversations in progress when this system is on radio operation.

# Important Information (For Australia only)

## Instructions to customer

### Installation

Attached to this apparatus is an approval label. This label is evidence that it is a "Permitted Attachment" which has been authorised to be connected to your telephone service.

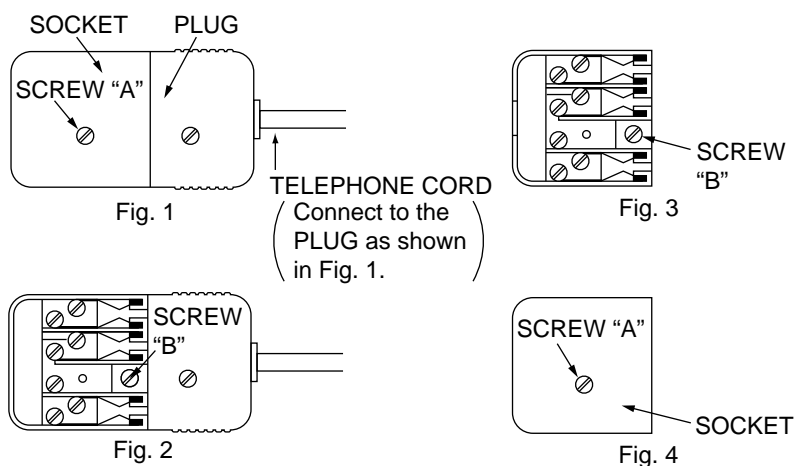
Conditions relating to connection and operation of this Permitted Attachment are contained in Telecommunications General By-Law 220 (5).

You are authorised to install this Permitted Attachment yourself by plugging it into the line socket of any regular telephone. You may connect it in place of your existing telephone or to any spare telephone socket installed in your premises.

To disconnect your existing telephone you must first remove its plug from the line socket. You can then insert the plug of your Permitted Attachment into the socket and use your equipment.

If the plug of your existing telephone cannot be readily removed, you will have to remove the screw securing it. To do this proceed as follows:

1. Loosen screw "A" sufficiently to remove the socket cover. (See Fig. 1.)
2. Remove screw "B" and withdraw the plug. (See Fig. 2.)
3. Replace screw "B". (See Fig. 3.) Ensure that it screws completely into the socket recess. (If the screw is too long, increase the hole depth or replace the screw with one 5 mm shorter.)
4. Replace socket cover and tighten screw "A". (See Fig. 4.)



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If you are satisfied with the operation of your telephone service after plugging in your Permitted Attachment, your installation is completed.

You will be unable to connect this Permitted Attachment if your telephone service consists only of a wall phone or an old style telephone which is not connected by means of a modern plug and socket. In such cases a new socket will need to be installed.

Should the Permitted Attachment not operate when plugged into a socket, it is either faulty or unsuitable for operation with your telephone service. It should be returned to the store where purchased.

**Service difficulties**

If at any time a fault occurs on your telephone service carry out the following checks before you call for service:

- Disconnect the Permitted Attachment and try using the service with the normal telephone.
- If the telephone service then operates satisfactorily, the fault is in your Permitted Attachment. Leave the Permitted Attachment disconnected and report the fault to its supplier or agent to arrange for repair.
- If when using the telephone the service is still faulty, report the fault to "Service Difficulties and Faults" for attention.

You are required to keep this Permitted Attachment in good working order while it is connected to your telephone service. Its construction or internal circuit must not be modified in any way without permission.

**WARNING**

This cordless telephone system does not incorporate provision for secrecy of conversations. Appropriately tuned radio equipment and other cordless telephone systems in close proximity may be used by a third party to monitor and possibly interrupt conversations in progress when this system is on radio operation.

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